

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-08-12 17:49:26

Date of Next Testing: 2029-08-11 17:49:26

Product Name: **L-Alanine**

CAS Number: 56-41-7

Specifications & Purity: Animal Free, USP, JP, Moligand™, Ph.Eur., for cell culture, ≥98.5%

Lot #: H2508046

SKU #: **A118860**

Version: **1**

Analysis #: **558506**

Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Sulfate(SO42-)	0-0.02 (%)	0.01200 %
Iron(Fe)	0-10 (ppm)	0.00000 ppm
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Chloride	0-0.02 (%)	0.00000 %
Endotoxin Assay	0-1 (EU/mg)	0.00000 EU/mg
PH(5% in water)	5.7-6.7	6.62000
Ammonia (NH4)	0-0.02 (%)	0.01800 %
Specific Rotation[a]20/D(c=10 in 6 M HCl at 20 °C in per EP	14.3-15.2 (°)	14.32000 °
(As)Arsenic	0-1 (ppm)	0.00000 ppm
Loss on drying	0-0.2 (%)	0.01002 %
Ignition Residue	0-0.1 (%)	0.00000 %
Purity(Titration by HClO4)(Dry basis)	98.5 -101 (%)	98.51000 %
Appearance (A118860)	White Powder or Crystals	White Powder or Crystals
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Residual solvents	complies	complies
Solubility in 2 M HCl	Colorless,Clear,1.0 g to 10 ml	Colorless,Clear,1.0 g to 10 ml



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager